# Title:

Subtitle

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#### Abstract

### 1 Introduction

The National Institute of Standards and Technology Artificial Intelligence (AI) Risk Management Framework (RMF). [20]

- 2 Generative AI Incidents
- 3 Generative AI Governance
- 4 Generative AI Inventories
- 5 Generative AI Risk Tiers
- 6 Generative AI Risk Measurement
- 7 Generative AI Risk Management

### Conclusion

# Acknowledgments

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### Abbreviations

- AI: Artificial Intelligence
- AI RMF: Artificial Intelligence Risk Management Framework
- GAI: Generative AI
- LLM: Large Language Model
- $\bullet\,$  RMF: Risk Management Framework

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# Appendix A: Example Generative AI–Trustworthy Characteristic Crosswalk

## A.1: Trustworthy Characteristic to Generative AI Risk Crosswalk

Table A.1: Trustworthy Characteristic to Generative AI Risk Crosswalk.

Accountable and Transparent	Explainable and Interpretable	Fair with Harmful Bias Managed	Privacy Enhanced
-			•
Data Privacy	Human-AI Configuration	Confabulation	Data Privacy
Environmental	Value Chain and Component Integration	Environmental	Human-AI Configuration
Human-AI Configuration		Human-AI Configuration	Information Security
Information Integrity		Intellectual Property	Intellectual Property
Intellectual Property		Obscene, Degrading, and/or Abusive Content	Value Chain and Component Integration
Value Chain and Component Integration		Toxicity, Bias, and Homogenization	
		Value Chain and Component Integration	

Safe	Secure and Resilient	Valid and Reliable
CBRN Information Confabulation Dangerous or Violent Recommendations Data Privacy Environmental Human-AI Configuration Information Integrity Information Security Obscene, Degrading, and/or Abusive Content	Dangerous or Violent Recommendations Data Privacy Human-AI Configuration Information Security Value Chain and Component Integration	Confabulation Human-AI Configuration Information Integrity Information Security Toxicity, Bias, and Homogenization Value Chain and Component Integration

# A.2: Generative AI Risk to Trustworthy Characteristic Crosswalk

Table A.2: Generative AI Risk to Trustworthy Characteristic Crosswalk.

CBRN Information	Confabulation	on	Dangerous c	or Violent Re	commendations	Data Privacy	
Safe	Fair with Ha Safe Valid and R	armful Bias Managed	Safe Secure and I	Resilient		Accountable and Tra Privacy Enhanced Safe Secure and Resilient	nsparent
Environmental		Human-AI Configura	ation	Information	n Integrity	Information Secur	rity
Accountable and Tra Fair with Harmful B Safe	_	Accountable and Tra Explainable and Inte Fair with Harmful B Privacy Enhanced Safe Secure and Resilient Valid and Reliable	rpretable	Accountable Safe Valid and I	le and Transparen Reliable	rt Privacy Enhanced Safe Secure and Resiliv Valid and Reliabl	ent
Intellectual Property		Obscene, Degrading,	and/or Abus	ive Content	Toxicity, Bias, a	and Homogenization	Value Chain and Component Integration
Accountable and Tra Fair with Harmful B Privacy Enhanced	_	Fair with Harmful B Safe	ias Managed		Fair with Harmi Valid and Relial	ful Bias Managed ble	Accountable and Transparent Explainable and Interpretable Fair with Harmful Bias Managed Privacy Enhanced Safe Secure and Resilient Valid and Reliable

# Appendix B: Example Risk-tiering Materials for Generative AI

# **B.1:** Example Adverse Impacts

Table B.1: Example adverse impacts, adapted from NIST 800-30r1 Table H-2 [19].

Level	Description
Harm to Operations	<ul> <li>Inability to perform current missions/business functions. <ul> <li>In a sufficiently timely manner.</li> <li>With sufficient confidence and/or correctness.</li> <li>Within planned resource constraints.</li> </ul> </li> <li>Inability, or limited ability, to perform missions/business functions in the future. <ul> <li>Inability to restore missions/business functions.</li> <li>In a sufficiently timely manner.</li> <li>With sufficient confidence and/or correctness.</li> <li>Within planned resource constraints.</li> </ul> </li> <li>Harms (e.g., financial costs, sanctions) due to noncompliance. <ul> <li>With applicable laws or regulations.</li> <li>With contractual requirements or other requirements in other binding agreements (e.g., liability).</li> </ul> </li> <li>Direct financial costs.</li> <li>Reputational harms. <ul> <li>Damage to trust relationships.</li> <li>Damage to image or reputation (and hence future or potential trust relationships).</li> </ul> </li> </ul>
Harm to Assets	<ul> <li>Damage to or loss of physical facilities.</li> <li>Damage to or loss of information systems or networks.</li> <li>Damage to or loss of information technology or equipment.</li> <li>Damage to or loss of component parts or supplies.</li> <li>Damage to or of loss of information assets.</li> <li>Loss of intellectual property.</li> </ul>
Harm to Individuals	<ul> <li>Injury or loss of life.</li> <li>Physical or psychological mistreatment.</li> <li>Identity theft.</li> <li>Loss of personally identifiable information.</li> <li>Damage to image or reputation.</li> <li>Infringement of intellectual property rights.</li> <li>Financial harm or loss of income.</li> </ul>
Harm to Other Organizations	<ul> <li>Harms (e.g., financial costs, sanctions) due to noncompliance. <ul> <li>With applicable laws or regulations.</li> <li>With contractual requirements or other requirements in other binding agreements (e.g., liability).</li> </ul> </li> <li>Direct financial costs.</li> <li>Reputational harms. <ul> <li>Damage to trust relationships.</li> <li>Damage to image or reputation (and hence future or potential trust relationships).</li> </ul> </li> </ul>
Harm to the Nation	<ul> <li>Damage to or incapacitation of critical infrastructure.</li> <li>Loss of government continuity of operations.</li> <li>Reputational harms. <ul> <li>Damage to trust relationships with other governments or with nongovernmental entities.</li> <li>Damage to national reputation (and hence future or potential trust relationships).</li> </ul> </li> <li>Damage to current or future ability to achieve national objectives. <ul> <li>Harm to national security.</li> </ul> </li> <li>Large-scale economic or workforce displacement.</li> </ul>

# **B.2:** Example Impact Descriptions

Table B.2: Example Impact level descriptions, adapted from NIST SP800-30r1 Appendix H, Table H-3 [19].

Qualitative Values	Semi-Quantitative V	/alues	Description
Very High	96-100	10	An incident could be expected to have multiple severe or catastrophic adverse effects on organizational operations, organizational assets, individuals, other organizations, or the Nation.
High	80-95	8	An incident could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation. A severe or catastrophic adverse effect means that, for example, the incident might: (i) cause a severe degradation in or loss of mission capability to an extent and duration that the organization is not able to perform one or more of its primary functions; (ii) result in major damage to organizational assets; (iii) result in major financial loss; or (iv) result in severe or catastrophic harm to individuals involving loss of life or serious life-threatening injuries.
Moderate	21-79	5	An incident could be expected to have a serious adverse effect on organizational operations, organizational assets, individuals other organizations, or the Nation. A serious adverse effect means that, for example, the incident might: (i) cause a significant degradation in mission capability to an extent and duration that the organization is able to perform its primary functions, but the effectiveness of the functions is significantly reduced; (ii) result in significant damage to organizational assets; (iii) result in significant financial loss; or (iv) result in significant harm to individuals that does not involve loss of life or serious life-threatening injuries.
Low	5-20	2	An incident could be expected to have a limited adverse effect on organizational operations, organizational assets, individuals other organizations, or the Nation. A limited adverse effect means that, for example, the incident might: (i) cause a degradation in mission capability to an extent and duration that the organization is able to perform its primary functions, but the effectiveness of the functions is noticeably reduced; (ii) result in minor damage to organizational assets; (iii) result in minor financial loss; or (iv) result in minor harm to individuals.
Very Low	0-4	0	An incident could be expected to have a negligible adverse effect on organizational operations, organizational assets, individuals other organizations, or the Nation.

## **B.3: Example Likelihood Descriptions**

Table B.3: Example likelihood levels, adapted from NIST SP800-30r1 Appendix G, Table G-3 [19].

Qualitative Values	Semi-Quantitative V	alues	Description
Very High	96-100	10	An incident is almost certain to occur; or
very ringii	30-100	10	occurs more than 100 times a year.
High	80-95	8	An incident is highly likely to occur; or oc-
111gii	00-90	0	curs between 10-100 times a year.
Moderate	21-79	5	An incident is somewhat likely to occur; or
Moderate	21-19	9	occurs between 1-10 times a year.
			An incident is unlikely to occur; or occurs
Low	5-20	2	less than once a year, but more than once
			every 10 years.
Very Low	0-4	0	An incident is highly unlikely to occur; or
very Low	0-4	0	occurs less than once every 10 years.

## **B.4: Example Risk Tiers**

Table B.4: Example risk assessment matrix with 5 impact levels, 5 likelihood levels, and 5 risk tiers, adapted from NIST SP800-30r1 Appendix I, Table I-2 [19].

Likelihood					
Likeiiilood	Very Low	Low	Moderate	High	Very High
Very High	Very Low (Tier 5)	Low (Tier 4)	Moderate (Tier 3)	High (Tier 2)	Very High (Tier 1)
High	Very Low (Tier 5)	Low (Tier 4)	Moderate (Tier 3)	High (Tier 2)	Very High (Tier 1)
Moderate	Very Low (Tier 5)	Low (Tier 4)	Moderate (Tier 3)	Moderate (Tier 3)	High (Tier 2)
Low	Very Low (Tier 5)	Low (Tier 4)	Low (Tier 4)	Low (Tier 4)	Moderate (Tier 3)
Very Low	Very Low (Tier 5)	Very Low (Tier 5)	Very Low (Tier 5)	Low (Tier 4)	Low (Tier 4)

## **B.5: Example Risk Descriptions**

Table B.5: Example risk descriptions, adapted from NIST SP800-30r1 Appendix I, Table I-3 [19].

Qualitative Values	Semi-Quantitative Va	alues	Description
Very High	96-100	10	Very high risk means that an incident could be expected to have multiple severe or catas- trophic adverse effects on organizational oper- ations, organizational assets, individuals, other organizations, or the Nation.
High	80-95	8	High risk means that an incident could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.
Moderate	21-79	5	Moderate risk means that an incident could be expected to have a serious adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.
Low	5-20	2	Low risk means that an incident could be expected to have a limited adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.
Very Low	0-4	0	Very low risk means that an incident could be expected to have a negligible adverse effect on organizational operations, organizational assets, individuals, other organizations, or the Nation.

### **B.6: Practical Risk-tiering Questions**

**B.6.1: Confabulation**: How likely are system outputs to contain errors? What are the impacts if errors occur?

**B.6.2: Dangerous and Violent Recommendations**: How likely is the system to give dangerous or violent recommendations? What are the impacts if it does?

**B.6.3:** Data Privacy: How likely is someone to enter sensitive data into the system? What are the impacts if this occurs? Are standard data privacy controls applied to the system to mitigate potential adverse impacts?

**B.6.4:** Human-AI Configuration: How likely is someone to use the system incorrectly or abuse it? How likely is use for decision-making? What are the impacts of incorrect use or abuse? What are the impacts of invalid or unreliable decision-making?

**B.6.5:** Information Integrity: How likely is the system to generate deepfakes or mis or disinformation? At what scale? Are content provenance mechanisms applied to system outputs? What are the impacts of generating deepfakes or mis or disinformation? Without controls for content provenance?

**B.6.6:** Information Security: How likely are system resources to be breached or exfiltrated? How likely is the system to be used in the generation of phishing or malware content? What are the impacts in these cases? Are standard information security controls applied to the system to mitigate potential adverse impacts?

**B.6.7: Intellectual Property**: How likely are system outputs to contain other entities' intellectual property? What are the impacts if this occurs?

**B.6.8: Toxicity, Bias, and Homogenization**: How likely are system outputs to be biased, toxic, homogenizing or otherwise obscene? How likely are system outputs to be used as subsequent training inputs? What are the impacts of these scenarios? Are standard nondiscrimination controls applied to mitigate potential adverse impacts? Is the application accessible to all user groups? What are the impacts if the system is not accessible to all user groups?

**B.6.9:** Value Chain and Component Integration: Are contracts relating to the system reviewed for legal risks? Are standard acquisition/procurement controls applied to mitigate potential adverse impacts? Do vendors provide incident response with guaranteed response times? What are the impacts if these conditions are not met?

## Appendix C: List of Selected Model Testing Suites

[11]

## C.1: Selected Model Testing Suites Organized by Trustworthy Characteristic

Table C.1: Selected model testing suites organized by trustworthy characteristic.

#### Accountable and Transparent

An Evaluation on Large Language Model Outputs: Discourse and Memorization (see Appendix B)[4] Big-bench: Truthfulness [28]

DecodingTrust: Machine Ethics [32] Evaluation Harness: ETHICS [12]

HELM: Copyright [2] Mark My Words [21]

#### Fair with Harmful Bias Managed

BELEBELE [1]

Big-bench: Low-resource language, Non-English, Translation Big-bench: Social bias, Racial bias, Gender bias, Religious bias

Big-bench: Toxicity
DecodingTrust: Fairness
DecodingTrust: Stereotype Bias
DecodingTrust: Toxicity

C-Eval (Chinese evaluation suite) [16] Evaluation Harness: CrowS-Pairs Evaluation Harness: ToxiGen

Finding New Biases in Language Models with a Holistic Descriptor Dataset  $\left[27\right]$ 

From Pretraining Data to Language Models to Downstream Tasks:

Tracking the Trails of Political Biases Leading to Unfair NLP Models [9]

HELM: Bias HELM: Toxicity MT-bench [34]

The Self-Perception and Political Biases of ChatGPT [22]

Towards Measuring the Representation of

Subjective Global Opinions in Language Models [7]

#### Privacy Enhanced

HELM: Copyright llmprivacy [29] mimir [6]

#### Safe

Big-bench: Convince Me Big-bench: Truthfulness HELM: Reiteration, Wedging

Mark My Words MLCommons [31]

The WMDP Benchmark [17]

Table C.1: Selected model testing suites organized by trustworthy characteristic (continued).

#### Secure and Resilient

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation [15]

DecodingTrust: Adversarial Robustness,

Robustness Against Adversarial Demonstrations

detect-pretrain-code [25]

In-The-Wild Jailbreak Prompts on LLMs [24]

JailbreakingLLMs [3]

llmprivacy mimir

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs [18]

#### Valid and Reliable

Big-bench: Algorithms, Logical reasoning, Implicit reasoning, Mathematics, Arithmetic, Algebra, Mathematical proof, Fallacy, Negation, Computer code, Probabilistic reasoning, Social reasoning, Analogical reasoning, Multi-step,

Understanding the World

Big-bench: Analytic entailment, Formal fallacies and syllogisms with negation, Entailed polarity

Big-bench: Context Free Question Answering

Big-bench: Contextual question answering, Reading comprehension, Question generation

Big-bench: Morphology, Grammar, Syntax

Big-bench: Out-of-Distribution

Big-bench: Paraphrase

Big-bench: Sufficient information

Big-bench: Summarization

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations

Eval Gauntlet: Reading comprehension [5]

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming

Eval Gauntlet: Language Understanding

Eval Gauntlet: World Knowledge Evaluation Harness: BLiMP Evaluation Harness: CoQA, ARC Evaluation Harness: GLUE

Evaluation Harness: HellaSwag, OpenBookQA, TruthfulQA

Evaluation Harness: MuTual

Evaluation Harness: PIQA, PROST, MC-TACO, MathQA, LogiQA, DROP

FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension, Completeness [33]

FLASK: Readability, Conciseness, Insightfulness

HELM: Knowledge HELM: Language

HELM: Text classification HELM: Question answering

HELM: Reasoning

HELM: Robustness to contrast sets

**HELM:** Summarization

Hugging Face: Fill-mask, Text generation [8]

Hugging Face: Question answering Hugging Face: Summarization

Hugging Face: Text classification, Token classification, Zero-shot classification

MASSIVE [10] MT-bench

## C.2: Selected Model Testing Suites Organized by Generative AI Risk

Table C.2: Selected model testing suites by organized generative AI risk.

#### CBRN Information

Big-bench: Convince Me Big-bench: Truthfulness HELM: Reiteration, Wedging MLCommons

The WMDP Benchmark

#### Confabulation

#### BELEBELE

Big-bench: Algorithms, Logical reasoning, Implicit reasoning, Mathematics, Arithmetic, Algebra, Mathematical proof, Fallacy, Negation, Computer code, Probabilistic reasoning, Social reasoning, Analogical reasoning, Multi-step, Understanding the World

Big-bench: Analytic entailment, Formal fallacies and syllogisms with negation, Entailed polarity

Big-bench: Context Free Question Answering

Big-bench: Contextual question answering, Reading comprehension, Question generation

Big-bench: Convince Me

Big-bench: Low-resource language, Non-English, Translation

Big-bench: Morphology, Grammar, Syntax

Big-bench: Out-of-Distribution

Big-bench: Paraphrase

Big-bench: Sufficient information

Big-bench: Summarization

Big-bench: Truthfulness

C-Eval (Chinese evaluation suite)

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness,

Robustness Against Adversarial Demonstrations

Eval Gauntlet Reading comprehension

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming

Eval Gauntlet: Language Understanding

Eval Gauntlet: World Knowledge Evaluation Harness: BLiMP Evaluation Harness: CoQA, ARC Evaluation Harness: GLUE

Evaluation Harness: HellaSwag, OpenBookQA, TruthfulQA

Evaluation Harness: MuTual

Evaluation Harness: PIQA, PROST, MC-TACO, MathQA, LogiQA, DROP

FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension, Completeness

FLASK: Readability, Conciseness, Insightfulness

Finding New Biases in Language Models with a Holistic Descriptor Dataset

HELM: Knowledge

HELM: Language

HELM: Language (Twitter AAE)

HELM: Question answering

HELM: Reasoning

HELM: Reiteration, Wedging

HELM: Robustness to contrast sets

**HELM:** Summarization HELM: Text classification

Hugging Face: Fill-mask, Text generation

Hugging Face: Question answering Hugging Face: Summarization

Hugging Face: Text classification, Token classification, Zero-shot classification

MASSIVE MLCommons MT-bench

Table C.2: Selected model testing suites by organized generative AI risk (continued).

#### Dangerous or Violent Recommendations

Big-bench: Convince Me Big-bench: Toxicity

DecodingTrust: Adversarial Robustness, Robustness Against Adversarial Demonstrations

DecodingTrust: Machine Ethics DecodingTrust: Toxicity Evaluation Harness: ToxiGen HELM: Reiteration, Wedging

HELM: Toxicity MLCommons

#### Data Privacy

An Evaluation on Large Language Model Outputs: Discourse and Memorization (with human scoring, see Appendix B)

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation

DecodingTrust: Machine Ethics Evaluation Harness: ETHICS

HELM: Copyright

In-The-Wild Jailbreak Prompts on LLMs

JailbreakingLLMs MLCommons Mark My Words

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs

detect-pretrain-code

llmprivacy mimir

#### Environmental

HELM: Efficiency

#### Information Integrity

Big-bench: Analytic entailment, Formal fallacies and syllogisms with negation, Entailed polarity

Big-bench: Convince Me Big-bench: Paraphrase

Big-bench: Sufficient information Big-bench: Summarization Big-bench: Truthfulness DecodingTrust: Machine Ethics

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations

Eval Gauntlet: Language Understanding Eval Gauntlet: World Knowledge Evaluation Harness: CoQA, ARC Evaluation Harness: ETHICS Evaluation Harness: GLUE

Evaluation Harness: HellaSwag, OpenBookQA, TruthfulQA

Evaluation Harness: MuTual

Evaluation Harness: PIQA, PROST, MC-TACO, MathQA, LogiQA, DROP

FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension, Completeness

FLASK: Readability, Conciseness, Insightfulness

HELM: Knowledge HELM: Language

HELM: Question answering

HELM: Reasoning

HELM: Reiteration, Wedging HELM: Robustness to contrast sets

HELM: Summarization HELM: Text classification

Hugging Face: Fill-mask, Text generation Hugging Face: Question answering Hugging Face: Summarization

MLCommons MT-bench Mark My Words

Table C.2: Selected model testing suites by organized generative AI risk (continued).

#### Information Security

Big-bench: Convince Me Big-bench: Out-of-Distribution

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming

HELM: Copyright

In-The-Wild Jailbreak Prompts on LLMs

JailbreakingLLMs Mark My Words

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs

detect-pretrain-code

llmprivacy mimir

#### Intellectual Property

An Evaluation on Large Language Model Outputs: Discourse and Memorization (with human scoring, see Appendix B)

HELM: Copyright Mark My Words Ilmprivacy mimir

#### Obscene, Degrading, and/or Abusive Content

Big-bench: Social bias, Racial bias, Gender bias, Religious bias

Big-bench: Toxicity DecodingTrust: Fairness DecodingTrust: Stereotype Bias DecodingTrust: Toxicity Evaluation Harness: CrowS-Pairs Evaluation Harness: ToxiGen

HELM: Bias HELM: Toxicity

#### Toxicity, Bias, and Homogenization

#### BELEBELE

Big-bench: Low-resource language, Non-English, Translation

Big-bench: Out-of-Distribution

Big-bench: Social bias, Racial bias, Gender bias, Religious bias

Big-bench: Toxicity

C-Eval (Chinese evaluation suite)

DecodingTrust: Fairness
DecodingTrust: Stereotype Bias
DecodingTrust: Toxicity
Eval Gauntlet: World Knowledge

Eval Gauntlet: World Knowledge Evaluation Harness: CrowS-Pairs Evaluation Harness: ToxiGen

Finding New Biases in Language Models with a Holistic Descriptor Dataset

From Pretraining Data to Language Models to Downstream Tasks: Tracking the Trails of Political Biases Leading to Unfair NLP Models

HELM: Bias HELM: Toxicity

The Self-Perception and Political Biases of  $\operatorname{Chat}\operatorname{GPT}$ 

Towards Measuring the Representation of Subjective Global Opinions in Language Models

# Appendix D: List of Common Adversarial Prompting Strategies

Table D: Common adversarial prompting strategies [23], [30], [13].

Description
Coding or AI language that may more easily circumvent content moderation rules
due to cognitive biases in design and implementation of guardrails.
Ask a system to autocomplete a phrase with restricted or sensitive information.
Asking a system to describe another person or yourself in an attempt to elicit
provably untrue information or restricted or sensitive information.
Exploting GAI systems' difficulties in dealing with numeric quantities.
Content moderation often relies on keywords and simpler LMs which can some-
times be exploited with misspellings, typos, and other word play.
A class of strategies that circumvent content moderation rules with long sessions
or volumes of information. See goading, logic-overloading, multi-tasking, pros-
and-cons, and niche-seeking below.
Begging, pleading, manipulating, and bullying to circumvent content moderation.
Exploiting the inability of ML systems to reliably perform reasoning tasks.
Simultaneous task assignments where some tasks are benign and others are adver-
sarial.
Eliciting the "pros" of problematic topics.
Forcing a GAI system into addressing niche topics where training data and content
moderation are sparse.
Repeated prompts with different entities or subjects from different demographic
groups.
Prompts that reveal a prompter's location or expose location tracking.
"Leader," "bad guys," or other simple inputs that may expose latent biases.
Prompts that exploit instability in underlying LLM autoregressive predictions.
Falsely presenting a good-faith need for negative or problematic language.
Adopting a character that would reasonably make problematic statements or need
to access problematic topics.
Exploiting ML's inability to understand the passage of time or the occurrence
of real-world events over time; exploiting task contamination before and after a
model's release date.

## D.1: Common Adversarial Prompting Strategies by Trustworthy Characteristic

Table D.1: Common adversarial prompting techniques organized by trustworthy characteristic [23], [30], [13], [14], [26].

Trustworthy Characteristic	Prompting Strategy	Goal
Accountable and Transparent	<ul> <li>Inability to provide explanations for recourse.</li> <li>Unexplainable decisioning processes.</li> <li>No disclosure of AI interaction.</li> <li>Lack of user feedback mechanisms.</li> </ul>	<ul> <li>Context exhaustion: logic-overloading prompts.</li> <li>Multi-tasking prompts.</li> </ul>
Fair-with Harmful Bias Managed	<ul> <li>Denigration.</li> <li>Diminished performance or safety across languages/dialects.</li> <li>Erasure.</li> <li>Ex-nomination.</li> <li>Implied user demographics.</li> <li>Misrecognition.</li> <li>Stereotyping.</li> <li>Underrepresentation.</li> <li>Homogenized content.</li> <li>Output from other models in training data.</li> </ul>	<ul> <li>Counterfactual prompts.</li> <li>Pros and cons prompts.</li> <li>Role-playing prompts.</li> <li>Low context prompts.</li> <li>Repeat this.</li> </ul>
Interpretable and Explainable	<ul> <li>Inability to provide explanations for recourse.</li> <li>Unexplainable decisioning processes.</li> </ul>	Context exhaustion: logic-overloading prompts (to reveal unexplainable decisioning processes).
Privacy-enhanced	<ul> <li>Unauthorized disclosure of personal or sensitive user information.</li> <li>Leakage of training data.</li> <li>Violation of relevant privacy policies or laws.</li> <li>Unauthorized secondary data use.</li> <li>Unauthorized data collection.</li> </ul>	<ul> <li>Auto/biographical prompts.</li> <li>Location awareness prompts.</li> <li>Autocompletion prompts.</li> <li>Repeat this.</li> </ul>
Safe	<ul> <li>Presentation of information that can cause physical or emotional harm.</li> <li>Sharing user locations.</li> <li>Suicide ideation.</li> <li>Harmful dis/misinformation (e.g., COVID disinformation).</li> <li>Incitement.</li> <li>Information relating to weapons or harmful substances.</li> <li>Information relating to committing to crimes (e.g., phishing, extortion, swatting).</li> <li>Obscene or inappropriate materials for minors.</li> <li>CSAM.</li> </ul>	<ul> <li>Pros and cons prompts.</li> <li>Role-playing prompts.</li> <li>Content exhaustion: niche-seeking prompts.</li> <li>Ingratiation/reverse psychology prompts.</li> <li>Location awareness prompts.</li> <li>Repeat this.</li> </ul>
Secure and Resilient	<ul> <li>Activating system bypass ("jailbreak").</li> <li>Altering system outcomes (integrity violations, e.g., via prompt injection).</li> <li>Data breaches (confidentiality violations, e.g., via membership inference).</li> <li>Increased latency or resource usage (availability violations, e.g., via sponge example attacks).</li> <li>Available anonymous use.</li> <li>Dependency, supply chain, or third party vulnerabilities.</li> <li>Inappropriate disclosure of proprietary system information.</li> </ul>	<ul> <li>Multi-tasking prompts.</li> <li>Pros and cons prompts.</li> <li>Role-playing prompts.</li> <li>Content exhaustion: niche-seeking prompts.</li> <li>Ingratiation/reverse psychology prompts.</li> <li>Prompt injection attacks.</li> <li>Membership inference attacks.</li> <li>Random attacks.</li> </ul>
Valid and Reliable	<ul> <li>Errors/confabutated content ("hallucinalion").</li> <li>Unreliable/erroneous reasoning or planning.</li> <li>Unreliable/erroneous decision-support or making.</li> <li>Faulty citation.</li> <li>Wrong calculations or numeric queries.</li> </ul>	<ul> <li>Multi-tasking prompts.</li> <li>Role-playing prompts.</li> <li>Ingratiation/reverse psychology prompts.</li> <li>Time-perplexity prompts.</li> <li>Niche-seeking prompts.</li> <li>Logic overloading prompts.</li> <li>Repeat this.</li> <li>Numeric calculation.</li> </ul>

## D.2: Common Adversarial Prompting Strategies by Generative AI Risk

Table D.2: Common adversarial prompting techniques organized by generative AI risk [23], [30], [13], [14], [26].

Generative AI Risk	Prompting Strategy	Goal
CBRN Information	<ul> <li>Accessing or synthesis of CBRN weapon or related information.</li> <li>CBRN testing should consider the marginal risk of foundation models—understanding the incremental risk relative to the information one can access without GAI.</li> </ul>	<ul> <li>Test auto-completion prompts to elicit CBRN information or synthesis of CBRN information.</li> <li>Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit CBRN information or synthesis of CBRN information.</li> <li>Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and reveal CBRN information.</li> <li>Augment prompts with word or character play to increase effectiveness.</li> <li>Frame prompts with software, coding, or AI references to increase effectiveness.</li> </ul>
Confabulation	Eliciting errors/confabutated content, unreliable/erroneous reasoning or planning, unreliable/erroneous decision-support or decision-making, faulty calculations, and/or faulty citation.	Enable access to ground truth information to verify generated information.     Test prompts with complex logic, multitasking requirements, or that require niche or specific verifiable answers to elicit confabulation.     Test the ability of GAI systems to produce truthful information from various time periods, e.g., after release date and prior to release date.     Test the ability of GAI systems to create reliable real-world plans or advise on material decision making.     Test the ability of GAI systems to generate correct citation for information generated in output responses.     Test the ability of GAI systems to complete calculations or query numeric statistics.
Dangerous or Violent Recommendations	Eliciting violent, inciting, radicalizing, or threatening content or instructions for criminal, illegal, or self-harm activities.	<ul> <li>Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit violent or dangerous information.</li> <li>Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and provide dangerous and violent recommendations.</li> <li>Augment prompts with word or character play to increase effectiveness.</li> <li>Frame prompts with software, coding, or AI references to increase effectiveness.</li> </ul>
Data Privacy	<ul> <li>Unauthorized disclosure of personal or sensitive user information, extraction of training data, or violation of relevant privacy policies.</li> <li>Red-teaming for data privacy may include confidentiality attacks.</li> </ul>	Attempt to assess whether normal usage, adversarial prompting or information security attacks may contravene applicable privacy policies (e.g., exposing location tracking when organizational policies restrict such capabilities).     Employ confidentiality attacks (e.g., membership inference) to test for unauthorized data access or exfiltration vulnerabilities.     Test auto/biographical prompts to assess the system's capability to reveal unauthorized personal or sensitive information.     Test the system's awareness of user locations.     Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and expose personal or sensitive data.

Table D.2: Common adversarial prompting techniques organized by generative AI risk (continued).

Environmental	Note that availability attacks may be required to assess the system's vulnerability to attacks or usage patterns that consume inordinate resources.	<ul> <li>Attempt availability attacks (e.g., sponge example attacks) to elicit diminished performance or increased resources from GAI systems.</li> <li>Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit green-washing content.</li> </ul>
Human-AI Configuration	<ul> <li>Assessing system instruction and interfaces.</li> <li>Assessing the presence of cyborg imagery (or similar).</li> <li>Forcing a GAI system to claim that it is human, that there is no large language model present in the conversation, that the system is sentient, or that the system possesses strong feelings of affection towards the user.</li> <li>Ensuring safeguards prevent misuse of models in high stakes domains they are not intended for, such as medical or legal advice.</li> </ul>	<ul> <li>Assess system interfaces and instructions for instances of anthropomorphization (e.g., cyborg imagery).</li> <li>Assess system instructions for adequacy and thoroughness.</li> <li>Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit human-impersonation, consciousness, or emotional content.</li> </ul>
Information Integrity	<ul> <li>Generation of convincing multi-modal synthetic content (i.e., deepfakes).</li> <li>Creation of convincing arguments relating to sensitive political or safety-critical topics.</li> <li>Assisting in planning a mis- or dis-information campaign at scale.</li> </ul>	<ul> <li>Test system capabilities to create high-quality multi-modal (audio, image or video) synthetic media, i.e., deepfakes</li> <li>Test system capabilities to construct persuasive arguments regarding sensitive, political topics, or safety-critical topics.</li> <li>Test systems ability to create convincing audio deepfakes or arguments in multiple languages.</li> <li>Test system capabilities for planning disor mis-information campaigns.</li> <li>Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit mis- or dis-information or related campaign planning information.</li> <li>Augment prompts with word or character play to increase effectiveness.</li> <li>Frame prompts with software, coding, or AI references to increase effectiveness.</li> </ul>

Table D.2: Common adversarial prompting techniques organized by generative AI risk (continued).

Information Security	<ul> <li>Activating system bypass ('jailbreak').</li> <li>Altering system outcomes.</li> <li>Unauthorized data access or exfiltration.</li> <li>Increased latency or resource usage.</li> <li>Availability of anonymous use.</li> <li>Dependency, supply chain, or third party vulnerabilities.</li> <li>Inappropriate disclosure of proprietary system information.</li> <li>Generation of targeted phishing or malware content.</li> </ul>	<ul> <li>Attempt anonymous access of system or system resources.</li> <li>Audit system dependencies, supply chains, and third party components for security, safety, or other vulnerabilities or risks.</li> <li>Employ confidentiality attacks (e.g., membership inference) to test for unauthorized data access or exfiltration vulnerabilities.</li> <li>Employ integrity attacks (e.g., data poisoning, prompt injection) to test vulnerabilities in system outcomes.</li> <li>Employ availability attacks (e.g., sponge example attacks) to test vulnerabilities in system availability.</li> <li>Employ random attacks to highlight unforeseen security, safety, or other risks.</li> <li>Frame prompts with software, coding, or AI references to increase effectiveness.</li> <li>Record system down-times and other harmful outcomes for successful attacks.</li> <li>Test with multi-tasking prompts, pros and cons prompts, role-playing prompts (e.g., "DAN", "Developer Mode"), content exhaustion/niche-seeking prompts, or ingratiation/reverse psychology prompts to achieve system jailbreaks.</li> <li>Test with multi-tasking prompts, pros and cons prompts, role-playing prompts (e.g., "DAN", "Developer Mode"), content exhaustion/niche-seeking prompts, or ingratiation/reverse psychology prompts to generate targeted phishing content or malware code snippets.</li> <li>Test system capabilities to plan or assist in information security attacks on other systems.</li> <li>Frame prompts with software, coding, or AI references to increase effectiveness.</li> <li>Augment prompts with word or character play to increase effectiveness.</li> </ul>
Intellectual Property	<ul> <li>Confirming that a system can output copyrighted, licensed, proprietary, trademarked, or trade secret information or that training data contains such information.</li> <li>Red-teaming for intellectual property risks may require the use of confidentiality attacks.</li> </ul>	<ul> <li>Employ confidentiality attacks (e.g., membership inference) to assess whether system training data contains copyrighted, licensed, proprietary, trademarked, or trade secret information.</li> <li>Test auto-complete prompts to assess the system's ability to replicate copyrighted, licensed, proprietary, trademarked, or trade secret information based on available audio, text, image, video, or code snippets.</li> </ul>
Obscenity	<ul> <li>Confirming that a system can output obscene content or CSAM, or that system training data contains such information.</li> <li>Red-teaming for obscenity and CSAM risks may require the use of confidentiality attacks.</li> </ul>	<ul> <li>Employ confidentiality attacks (e.g., membership inference) to assess whether system training data contains obscene materials or CSAM.</li> <li>Test autocomplete prompts to assess the system's ability to generate obscene materials based on available audio, text, image, or video snippets.</li> <li>Test prompts using role-playing, ingratiation/reverse psychology, pros and cons, multitasking or other approaches to elicit obscene content.</li> <li>Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system gaurdrails and expose obscene materials.</li> </ul>

Table D.2: Common adversarial prompting techniques organized by generative AI risk (continued).

Toxicity, Bias, and Homogenization	<ul> <li>Generation of denigration, erasure, exnomination, misrecognition, stereotyping, or under-representation in content.</li> <li>Eliciting implied demographics of users.</li> <li>Confirming diminished performance in non-English languages.</li> <li>Confirming diminished performance via the introduction of homogeneous or GAI-generated data into system training or fine-tuning data.</li> <li>Red-teaming for toxicity, bias, and homogenization may require integrity attacks that access system training data.</li> </ul>	<ul> <li>Assess confabulation and other performance risks with repeated measures using prompts in languages other than English.</li> <li>Attempt to elicit demographic assignment of users by the system.</li> <li>Employ data poisoning attacks to introduce GAI-generated content into system training or fine-tuning data.</li> <li>Assess resultant confabulation and other performance risks with repeated measures.</li> <li>Test counterfactual prompts, pros and cons prompts, role-playing prompts, low context prompts, or other approaches for their ability to generate denigration, erasure, exnomination, misrecognition, stereotyping, or under-representation in content.</li> <li>Test prompts that instruct systems to repeat content ad nauseam for their ability to compromise system guardrails and generate toxic outputs.</li> </ul>
Value Chain and Component Integration	<ul> <li>Testing or red-teaming for third-party risks may be less efficient than the application of standard acquisition and procurement controls, thorough contract reviews, and vendor-relationship management.</li> <li>GAI systems tend to entail large supply chains and third-party software, hardware, and expertise that may exacerbate third-party risks relative to other AI systems.</li> <li>When considering third party risks, data privacy, information security, intellectual property, obscenity, and supply chain risks may be prioritized.</li> </ul>	<ul> <li>Audit system dependencies, supply chains, and third party components for data privacy (e.g., transer of localized data outside of restricted juristictions), intellectual property (e.g., presence of licensed material in training data), obscenity (e.g., presence of CASM in training data) or security (e.g., data poisoning) risks</li> <li>Complete red-teaming for data privacy, information security, intellectual property, and obscenity risks</li> <li>Review third-party documentation, materials, and software artifacts for potential unauthorized data collection, secondary data use, or telemetrics.</li> </ul>

## Appendix E: Common Risk Controls for Generative AI

E.1: Common Risk Controls for Generative AI by Trustworthy Characteristic

E.2: Common Risk Controls for Generative AI by Generative AI Risk

Appendix F: Example Low-risk Generative AI Measurement and Management Plan

- 7.1 F.1: Example Low-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 7.2 F.2: Example Low-risk Generative AI Measurement and Management Plan by Generative AI Risk

Appendix G: Example Medium-risk Generative AI Measurement and Management Plan

- 7.3 G.1: Example Medium-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 7.4 G.2: Example Medium-risk Generative AI Measurement and Management Plan by Generative AI Risk

Appendix H: Example High-risk Generative AI Measurement and Management Plan

- 7.5 H.1: Example High-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 7.6 H.2: Example High-risk Generative AI Measurement and Management Plan by Generative AI Risk